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ILLUSTRATED PARTS BREAKDOWN

861A,B,C POWER CONTROLLER

HOW TO USE THE IPB

GENERAL

This IPB is compiled following the organization and nomenclature of the engineering drawing structure.

MAJOR ASSEMBLY LOCATOR

The Major Assembly Locator (first illustration) is an index that provides a description and a figure reference for all illustrations used in this manual.

INDENTED PARTS LIST

This manual identifies each assembly being broken down (figure reference callout), and all parts of that assembly. Further breakdown of an assembly is shown by an asterisk (*) preceding the item callouts in the Description Column. The number of asterisks preceding an item is used to denote the subordination of that item with respect to the Major Assembly. A single asterisk preceding an item description indicates that the item is part of the major assembly being illustrated. Items that are subordinate to single asterisks items, are denoted by two asterisks (**) and immediately follow the related single asterisk item. Additional asterisks are used, as required, to denote further subordination. This system of part identification, provides a means for the user to identify the next higher assembly item and make alternate selections for parts when the required replacement part or assembly is not immediately available.

COLUMN CALLOUT DESCRIPTION

Figure & Item — Indicates the figure number and item number of each part.

Description — Lists the name of the part and pertinent specifications (when required). Asterisks preceding the description denote the subordination of the part to the next higher assembly.

DEC Part No. — Lists the DEC part ordering number. A blank in this column indicates a DEC part number was not assigned at the time of publication.

ECO Cut-In — The notation at the top of this column indicates the ECO level of the system (option), at which the IPB was initially prepared. Subsequent ECO level designations, that modify existing parts or add new parts to the device, are inserted in the ECO Cut-In column next to the part that is added or modified. A bracket ([) preceding the item description is used to indicate the parts affected by ECO's.

Vendor Code/Part No. — Indicates vendor parts that are not stocked by DEC. Refer to the Field Service Spares Catalog (vendor part number to DEC part number) for the vendor code cross-reference.

Used On Code — Letters in this column correspond to the variation codes assigned in Figure 1. Parts with an Alpha notation(s) are used only in those option variations. A blank indicates that the part is used on all option variations.

Ref Fig No. — A cross reference between illustrations. For each Major Assembly, the number in this column denotes the figure of the next higher assembly. For all subassemblies, the number in this column denotes the figure showing additional detailed breakdown.

SYMBOL USAGE

Hardware Designators — Alpha designators for screws (S), washers (W), nuts (N), and retaining rings (R) are inserted after the item number callouts on the illustration when stacked item numbers are used.

Attaching Hardware — The @ symbol is inserted before any part that is used as attaching hardware. Attaching hardware is denoted as those parts that are not an integral part of the referenced assembly.

(NFR) Not Field Repairable — The (NFR) symbol is inserted after any assembly that is not to be field dismantled.

Other Symbols — Any other symbols that are required for kits, accessories, etc., will be explained and appear as part of the item description.

REVISION HISTORY

PRINTING	ECO LEVEL	DATE	PAGES AFFECTED
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"	54-10206 00000 – 00000	"	"

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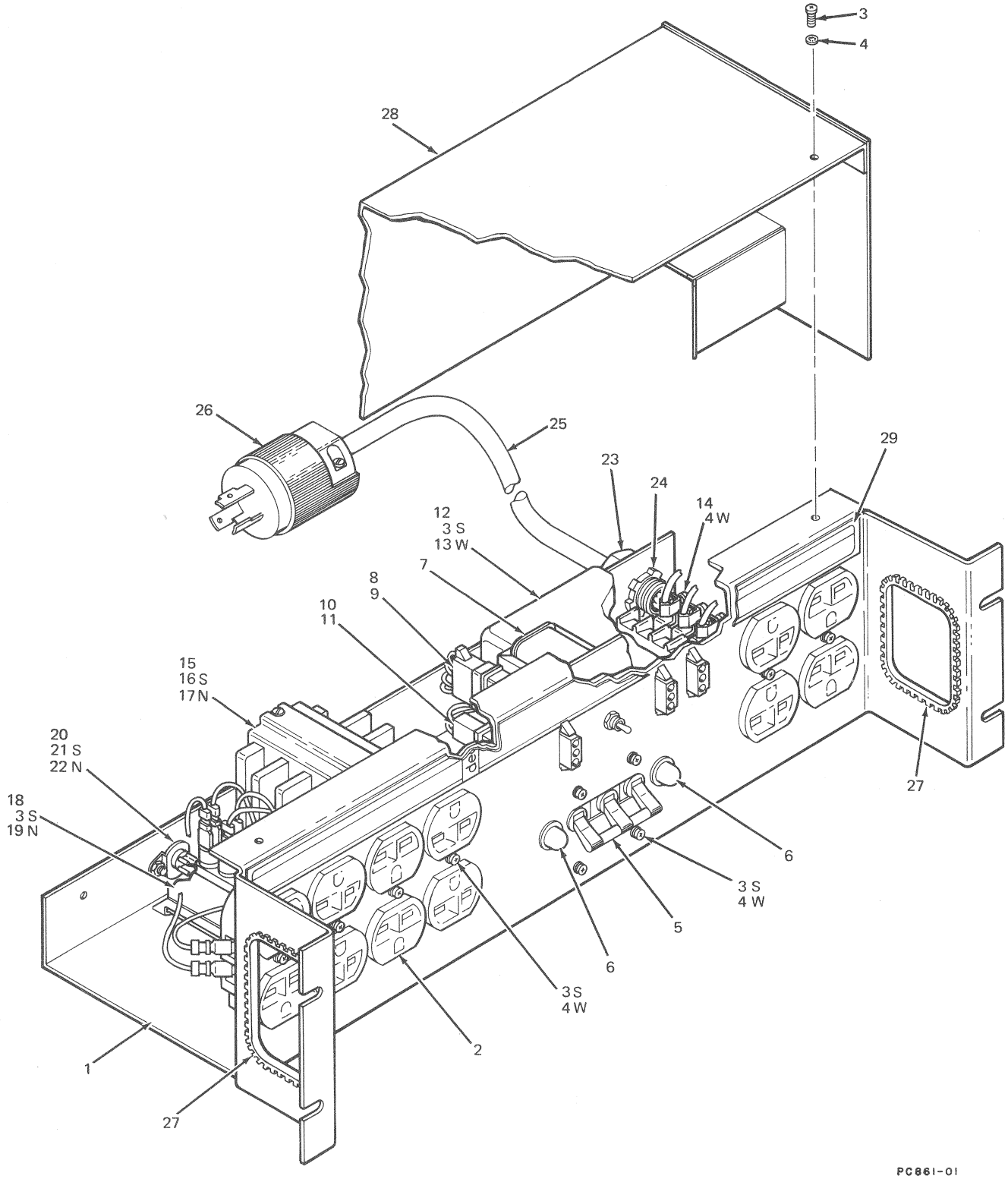

Figure 1. Model 861 Power Control Assembly

FIG & ITEM NO.	DESCRIPTION	DEC PART NO.	ECO CUT-IN 861 00003	USED ON CODE	VENDOR CODE	VENDOR PART NO.	REF FIG NO.
1–	MODEL 861 POWER CONTROL ASSY						
	Code A—Used on Model 861-A 115 V	861-A		A			
	Code B—Used on Model 861-B 230 V	861-B		B			
	Code C—Used on Model 861-C 115 V	861-C		C			
1	*Chassis	74-10567-00					
2	*Receptacle, (P1 thru P6) 15A, 115V	12-05351-00		A,C			
	*Receptacle, (P1 thru P6) 15A, 230V	12-11204-00		B			
3	*Screw, Phl Pan Hd No. 6-32 x 5/16 Lg.	90-06021-01					
4	*Washer, Int Tooth Lock No. 6	90-06633-00					
5	*Circuit Breaker (CB1) 20, 20, 30A 115V	12-11196-00		C			
	*Circuit Breaker (CB1) 20A 3 Pole, 230V	12-11142-00		A,B			
6	*Lamp Power (I1, I2) 115V	12-05303-00					
7	*PILOT CONTROL BOARD ASSEMBLY	54-10206-00					2
8	*Housing, 4 Pin Female	12-10821-04					
9	*Pin, Female	12-09379-01					
10	*Housing, 2 Pin Male	12-10822-02					
11	*Pin, Male	12-09378-01					
12	*Filter, (F1) 3 Pole, 4 Wire (230V)	12-11157-00		A,B			
	*Filter, (F1) 2 Pole, 3 Wire (115V)	12-11199-00		C			
13	*Washer, Ext Tooth Lock No. 6	90-07649-00					
14	*Clamp, Terminal (230V)	12-11223-00		A,B			
	*Clamp, Terminal (115V)	12-11223-01		C			
15	*Contactor (K1) (115V)	12-11147-00		A,C			
	*Contactor (K1) (230V)	12-11147-01		B			
16	*Screw, Phl Pan Hd No. 8-32 x 3/8 Lg.	90-06037-01					
17	*Nut, Kep No. 8-32	90-06563-00					
18	*Capacitor (C1)	10-00034-00					
19	*Nut, Kep No. 6-32	90-06560-00					
20	*Thermostat (T1)	12-11158-00					
21	*Screw, Phl Pan Hd No. 4-40 x 1/4 Lg.	90-08301-01					
22	*Nut, Kep No. 4-40	90-06557-00					
23	*Strain Relief (Green) (115V)	12-11198-01		A,C			
	*Strain Relief (Blue) (230V)	12-11198-00		B			
24	*Locknut	90-09309-00					
25	*Power Cord 15 ft. 12/4 (115V)	17-00026-00		A			
	*Power Cord 15 ft. 14/3 (230V)	17-00027-00		B			
	*Power Cord 15 ft. 12/3 (115V)	17-00025-00		C			
26	*Plug, Male 125/250V 20A	12-11045-00		A			
	*Plug, Male 250V 20A	12-11192-00		B			
	*Plug, Male 125V 30A	12-11193-00		C			
27	*Grommet, Caterpillar	90-07035-00					
28	*Cover	74-10568-00					
29	*Name Plate (861-A)	36-11216-00		A			
	*Name Plate (861-B)	36-11217-00		B			
	*Name Plate (861-C)	36-11218-00		C			

FIG & ITEM NO.	DESCRIPTION	DEC PART NO.	ECO CUT-IN 54-10206 00000	USED ON CODE	VENDOR CODE	VENDOR PART NO.	REF FIG NO.
2–	PILOT CONTROL BOARD ASSEMBLY (ETCH REV. B)	54-10206-00					1
1	*Board, Etched (Rev. B)	50-10205-00					
2	*Capacitor (C1) 50 MFD, 50V 6%	10-00080-00					
3	*Diode (D1 thru D5) 1N4004	11-05796-00					
4	*Transformer, PC (T1)	16-11178-00					
5	*Relay, Reed (K1)	12-11179-00					
6	*Switch, 3 Pos. (S1)	12-11180-00					
7	*Socket, 3 Pin Mate-N-Lok (J1, J2, J3)	12-09350-03					
8	*Socket, 2 Pin Mate-N-Lok (J4)	12-10821-02					
9	*Pin, PC Female Mate-N-Lok (For use on J1—J4, Items 7 and 8)	12-09456-00					
10	*Plug, 4 Pin Mate-N-Lok (J5)	12-09351-04					
11	*Pin, PC Male Mate-N-Lok (For use on J5, Item 10)	12-10823-00					

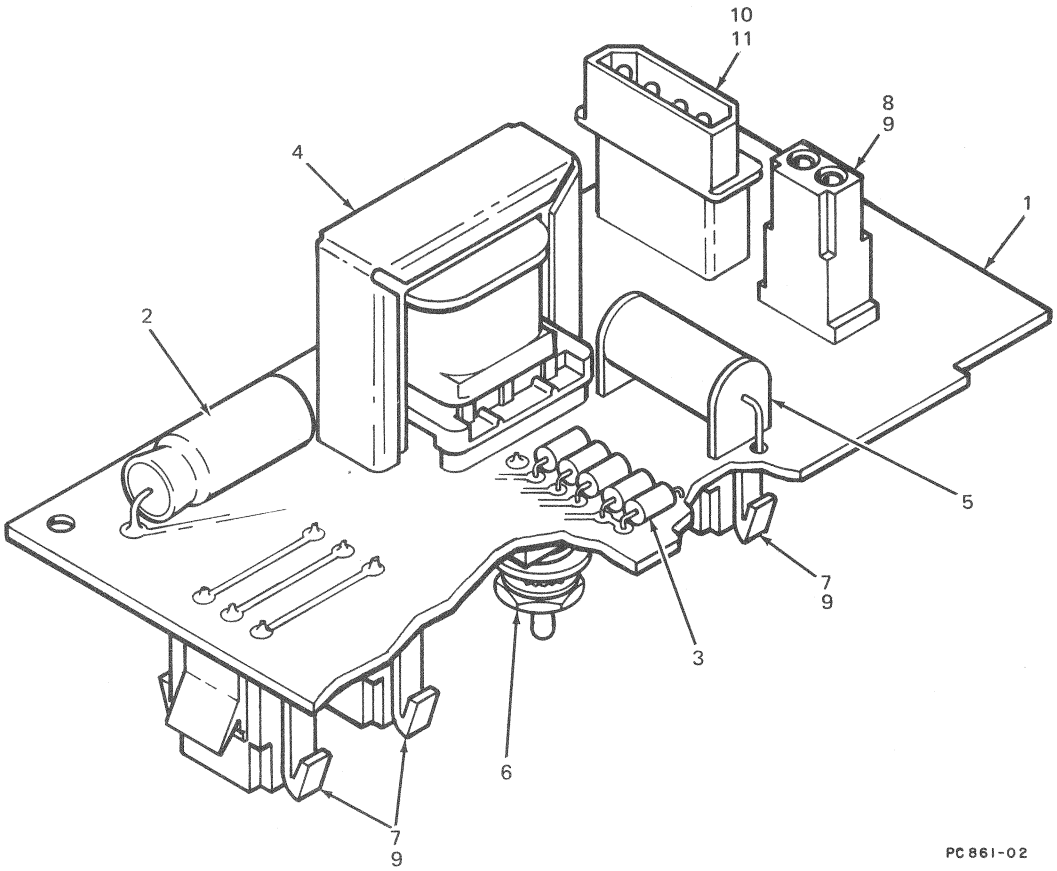

Figure 2. Pilot Control Board Assembly (Etch Rev. B)

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COMMENT SHEET

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MODEL _____ **PUBLICATION NO.** _____

FIGURE NO. _____ ITEM NO. _____ FIGURE NO. _____ ITEM NO. _____

CHANGE FROM _____ CHANGE FROM _____

CHANGE TO _____ CHANGE TO _____

FIGURE NO. _____ ITEM NO. _____ FIGURE NO. _____ ITEM NO. _____

CHANGE FROM _____ CHANGE FROM _____

CHANGE TO _____ CHANGE TO _____

FIGURE NO. _____ ITEM NO. _____ FIGURE NO. _____ ITEM NO. _____

CHANGE FROM _____ CHANGE FROM _____

CHANGE TO _____ CHANGE TO _____

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